L Number	Hits	Search Text	DB	Time stamp
	4	(("5333308") or ("5349674")).PN.	USPAT;	2004/03/24
	1		US-PGPUB;	16:04
			EPO; JPO;	:
	+		DERWENT;	
			IBM_TDB	
-	176099	continuous\$6 with (detect\$6 or track\$6 or	USPAT;	2004/03/24
		monitor\$6 or check\$6)	US-PGPUB;	16:25
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
•	12462	(fail\$4 or error\$4 or problem\$ or fault\$4)	USPAT;	2004/03/24
		with (continuous\$6 with (detect\$6 or	US-PGPUB;	16:08
	İ	track\$6 or monitor\$6 or check\$6))	EPO; JPO;	
		· · · · · · · · · · · · · · · · · · ·	DERWENT;	
			IBM_TDB	
•	330	(repair\$6 or fix\$4 or heal\$4 or	USPAT;	2004/03/24
		troubleshoot\$4) with ((fail\$4 or error\$4 or	US-PGPUB;	16:34
		problem\$ or fault\$4) with (continuous\$6	EPO; JPO;	
		with (detect\$6 or track\$6 or monitor\$6 or	DERWENT;	
		check\$6)))	IBM TDB	
•	49	((repair\$6 or fix\$4 or heal\$4 or	USPAT;	2004/03/24
		troubleshoot\$4) with ((fail\$4 or error\$4 or	US-PGPUB;	16:33
		problem\$ or fault\$4) with (continuous\$6	EPO; JPO;	
		with (detect\$6 or track\$6 or monitor\$6 or	DERWENT;	
		check\$6)))) with (file\$ or program\$ or	IBM_TDB	
		function\$ or subroutine\$ or list\$6)		•
	82901	(continuous\$6 or frequent\$6 or	USPAT;	2004/03/24
		concurrent\$6 or contiguous\$4) adj3	US-PGPUB;	17:02
		(detect\$6 or track\$6 or monitor\$6 or	EPO; JPO;	
		check\$6)	DERWENT;	
			IBM_TDB	
-	4238633	(file\$ or program\$ or function\$ or	USPAT;	2004/03/24
		subroutine\$ or list\$6)	US-PGPUB;	16:33
			EPO; JPO;	
		·	DERWENT;	
			IBM_TDB	
-	3839026	(repair\$6 or fix\$4 or heal\$4 or	USPAT;	2004/03/24
		troubleshoot\$4)	US-PGPUB;	16:35
		,	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	90	((continuous\$6 or frequent\$6 or	USPAT;	2004/03/24
		concurrent\$6 or contiguous\$4) adj3	US-PGPUB;	16:38
		(detect\$6 or track\$6 or monitor\$6 or	EPO; JPO;	
		check\$6)) with ((file\$ or program\$ or	DERWENT;	
	1	function\$ or subroutine\$ or list\$6)) with	IBM_TDB	
		((repair\$6 or fix\$4 or heal\$4 or		
		troubleshoot\$4))		

•	54247	((repair\$6 or fix\$4 or heal\$4 or troubleshoot\$4)) near3 ((file\$ or program\$ or function\$ or subroutine\$ or list\$6))	USPAT; US-PGPUB; EPO; JPO;	2004/03/24 16:46
	•		DERWENT; IBM_TDB	
•	17	((continuous\$6 or frequent\$6 or	USPAT;	2004/03/24
		concurrent\$6 or contiguous\$4) adj3	US-PGPUB;	16:41
		(detect\$6 or track\$6 or monitor\$6 or	EPO; JPO;	
		check\$6)) with (((repair\$6 or fix\$4 or heal\$4	DERWENT;	
		or troubleshoot\$4)) near3 ((file\$ or	IBM_TDB	
		program\$ or function\$ or subroutine\$ or		
_	27590	list\$6))) ((repair\$6 or fix\$4 or heal\$4 or	USPAT;	2004/03/24
-	27390	troubleshoot\$4)) adj3 ((file\$ or program\$ or	US-PGPUB;	16:50
		function\$ or subroutine\$ or list\$6))	EPO; JPO;	10.50
		ranotion of Sabroatines of history	DERWENT;	
			IBM_TDB	
-	8	((continuous\$6 or frequent\$6 or	USPAT;	2004/03/24
İ		concurrent\$6 or contiguous\$4) adj3	US-PGPUB;	16:53
		(detect\$6 or track\$6 or monitor\$6 or	EPO; JPO;	
		check\$6)) with (((repair\$6 or fix\$4 or heal\$4	DERWENT;	
		or troubleshoot\$4)) adj3 ((file\$ or program\$	IBM_TDB	
		or function\$ or subroutine\$ or list\$6)))		
-	59	(((continuous\$6 or frequent\$6 or	USPAT;	2004/03/24
		concurrent\$6 or contiguous\$4) adj3	US-PGPUB;	17:08
		(detect\$6 or track\$6 or monitor\$6 or	EPO; JPO;	
		check\$6)) with ((file\$ or program\$ or function\$ or subroutine\$ or list\$6)) with	DERWENT;	
		((repair\$6 or fix\$4 or heal\$4 or	IBM_TDB	
		troubleshoot\$4))) not ((((continuous\$6 or		
		frequent\$6 or concurrent\$6 or		
		contiguous\$4) adj3 (detect\$6 or track\$6 or		
		monitor\$6 or check\$6)) with (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4)) near3 (
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))) or (((continuous\$6		
		or frequent\$6 or concurrent\$6 or		
•		contiguous\$4) adj3 (detect\$6 or track\$6 or		
		monitor\$6 or check\$6)) with (((repair\$6 or fix\$4 or heal\$4 or troubleshoot\$4)) adj3 (·
		(file\$ or program\$ or function\$ or		
i		subroutine\$ or list\$6)))) or (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4) with		
		((fail\$4 or error\$4 or problem\$ or fault\$4)		
		with (continuous\$6 with (detect\$6 or		
		track\$6 or monitor\$6 or check\$6)))) with		
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))		
ĺ		(("5349674") or ("4796206") or ("6427227")	USPAT:	2004/03/24
-	10		,	
-	10	or ("6442605") or ("6151709")).PN.	US-PGPUB;	17:01
-	10		,	

-	0	("06and15").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/03/24 17:01
-	0	((continuous\$6 or frequent\$6 or	IBM_TDB USPAT;	2004/03/24
		concurrent\$6 or contiguous\$4) adj3 (detect\$6 or track\$6 or monitor\$6 or check\$6)) and ((("5349674") or ("4796206") or ("6427227") or ("6442605") or ("6151709")).PN.)	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	17:01
-	83055	(oftent\$6 or continuous\$6 or frequent\$6 or concurrent\$6 or contiguous\$4) adj3 (detect\$6 or track\$6 or monitor\$6 or check\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:03
-	12	((("5333308") or ("5349674")).PN.) or ((("5349674") or ("4796206") or ("6427227") or ("6442605") or ("6151709")).PN.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:03
-	0	((oftent\$6 or continuous\$6 or frequent\$6 or concurrent\$6 or contiguous\$4) adj3 (detect\$6 or track\$6 or monitor\$6 or check\$6)) and (((("5333308") or ("5349674")).PN.) or ((("5349674") or ("4796206") or ("6427227") or ("6442605") or ("6151709")).PN.))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:04
•	1930	10.ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:07
-	4	10.ti. and ((oftent\$6 or continuous\$6 or frequent\$6 or concurrent\$6 or contiguous\$4) adj3 (detect\$6 or track\$6 or monitor\$6 or check\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:05
•	13112	10.ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:07
-	51	10.ab. and ((oftent\$6 or continuous\$6 or frequent\$6 or concurrent\$6 or contiguous\$4) adj3 (detect\$6 or track\$6 or monitor\$6 or check\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/24 17:07

•	1528235	"51" not ((((continuous\$6 or frequent\$6 or	USPAT:	2004/03/24
		concurrent\$6 or contiguous\$4) adj3	US-PGPUB;	17:08
		(detect\$6 or track\$6 or monitor\$6 or	EPO; JPO;	
		check\$6)) with (((repair\$6 or fix\$4 or heal\$4	DERWENT;	
		or troubleshoot\$4)) near3 ((file\$ or	IBM_TDB	
		program\$ or function\$ or subroutine\$ or	<u>-</u>	
		list\$6)))) or (((continuous\$6 or frequent\$6 or		
		concurrent\$6 or contiguous\$4) adj3		٠
		(detect\$6 or track\$6 or monitor\$6 or		
		check\$6)) with (((repair\$6 or fix\$4 or heal\$4		
		or troubleshoot\$4)) adj3 ((file\$ or program\$		
		or function\$ or subroutine\$ or list\$6)))) or		
		(((repair\$6 or fix\$4 or heal\$4 or		
		troubleshoot\$4) with ((fail\$4 or error\$4 or		
		problem\$ or fault\$4) with (continuous\$6		
		with (detect\$6 or track\$6 or monitor\$6 or		
		check\$6)))) with (file\$ or program\$ or		
		function\$ or subroutine\$ or list\$6)) or		
		((((continuous\$6 or frequent\$6 or		
		concurrent\$6 or contiguous\$4) adj3		
		(detect\$6 or track\$6 or monitor\$6 or		
		check\$6)) with ((file\$ or program\$ or		
		function\$ or subroutine\$ or list\$6)) with		
		((repair\$6 or fix\$4 or heal\$4 or		
		troubleshoot\$4))) not ((((continuous\$6 or		
		frequent\$6 or concurrent\$6 or		
		contiguous\$4) adj3 (detect\$6 or track\$6 or		:
		monitor\$6 or check\$6)) with (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4)) near3 (
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))) or (((continuous\$6		
		or frequent\$6 or concurrent\$6 or		•
		contiguous\$4) adj3 (detect\$6 or track\$6 or		
		monitor\$6 or check\$6)) with (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4)) adj3 (
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))) or (((repair\$6 or		
-		fix\$4 or heal\$4 or troubleshoot\$4) with		
		((fail\$4 or error\$4 or problem\$ or fault\$4)		
		with (continuous\$6 with (detect\$6 or		
		track\$6 or monitor\$6 or check\$6)))) with		
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))))		

Т	44	(10.ab. and ((oftent\$6 or continuous\$6 or	USPAT;	2004/03/24
		frequent\$6 or concurrent\$6 or	US-PGPUB;	17:08
		contiguous\$4) adj3 (detect\$6 or track\$6 or	EPO; JPO;	
		monitor\$6 or check\$6))) not	DERWENT:	
		((((continuous\$6 or frequent\$6 or	IBM TDB	
		concurrent\$6 or contiguous\$4) adj3	.5155	
		(detect\$6 or track\$6 or monitor\$6 or		
		check\$6)) with (((repair\$6 or fix\$4 or heal\$4		
		or troubleshoot\$4)) near3 ((file\$ or		
		program\$ or function\$ or subroutine\$ or		
		list\$6)))) or (((continuous\$6 or frequent\$6 or		
		concurrent\$6 or contiguous\$4) adj3		
		(detect\$6 or track\$6 or monitor\$6 or		
		check\$6)) with (((repair\$6 or fix\$4 or heal\$4		
		or troubleshoot\$4)) adj3 ((file\$ or program\$		
		or function\$ or subroutine\$ or list\$6)))) or		
		(((repair\$6 or fix\$4 or heal\$4 or		
		troubleshoot\$4) with ((fail\$4 or error\$4 or		
		problem\$ or fault\$4) with (continuous\$6		
-		with (detect\$6 or track\$6 or monitor\$6 or		
		check\$6)))) with (file\$ or program\$ or	•	
-		function\$ or subroutine\$ or list\$6)) or		
		((((continuous\$6 or frequent\$6 or		
		concurrent\$6 or contiguous\$4) adj3		
		(detect\$6 or track\$6 or monitor\$6 or		
		check\$6)) with ((file\$ or program\$ or		
		function\$ or subroutine\$ or list\$6)) with		
ł		((repair\$6 or fix\$4 or heal\$4 or		
		troubleshoot\$4))) not ((((continuous\$6 or		
		frequent\$6 or concurrent\$6 or		
		contiguous\$4) adj3 (detect\$6 or track\$6 or		
		monitor\$6 or check\$6)) with (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4)) near3 (
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))) or (((continuous\$6		
		or frequent\$6 or concurrent\$6 or		
		contiguous\$4) adj3 (detect\$6 or track\$6 or		
		monitor\$6 or check\$6)) with (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4)) adj3 (
		(file\$ or program\$ or function\$ or		
		subroutine\$ or list\$6)))) or (((repair\$6 or		
		fix\$4 or heal\$4 or troubleshoot\$4) with		
		((fail\$4 or error\$4 or problem\$ or fault\$4)		
		with (continuous\$6 with (detect\$6 or		
		track\$6 or monitor\$6 or check\$6)))) with		
		(file\$ or program\$ or function\$ or		
L		subroutine\$ or list\$6)))))		

US-PAT-NO:

6640317

DOCUMENT-IDENTIFIER:

US 6640317 B1

TITLE:

Mechanism for automated generic application

damage

detection and repair in strongly encapsulated

application

----- KWIC -----

Abstract Text - ABTX (1):

A method, system, and apparatus for detecting and repairing damaged portions $\ensuremath{\mathsf{S}}$

of a computer system is provided. In a preferred embodiment of the present

invention, a damage detection and repair facility monitors and detects changes

to the computer system. The damage detection and repair facility compares $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

these changes to the set of constraints defined by the working definitions for

each application installed on the computer system. The working definitions

define the invariant portions of each application and define the constraints

placed upon the computer system by each application. Responsive to changes

that are in conflict with this set of constraints, the damage detection $% \left(1\right) =\left(1\right) +\left(

repair facility makes such changes in the persistent storage so as to resolve

these conflicts. This may be done, for example, by repairing a damaged
file,

installing a missing driver, or adjusting an environment variable.

Brief Summary Text - BSTX (13):

Currently the generally accepted method of protecting a computer system from $% \left(1\right) =\left(1\right) +\left(1\right$

damage from outside viral attacks is through the use of third party vendor

virus protection software products. However, these products must be updated

 $\frac{\textbf{frequently to be able to detect}}{\text{has}}$ the latest viruses. Any new virus that

been created since the software was updated may be undetected by the virus

protection software, thus enabling that virus to corrupt or destroy files

necessary for the proper performance of the computer.